PTO/SB/05 (08-03)

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UTILITY PATENT APPLICATION

Attorney Docket No.	1256-00929	
First Inventor	Hector F. DeLuca	
Title	Synthesis of A-Ring Synthon of 19-Nor-1Alpha,25-Dihydroxyvitamin D3 fr	om (D)-Gideoge
Express Mail Label No.	EV268210904US	ώα

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	TRAN	ISMITTAL		Title		Synthesis of 19-Nor-1Alp	A-Ring Synt ha,25-Dihydn	hon of oxyvita	min D3 from (D)-	
(Only for I	new nonprovisiona	l applications under 37 CFI	R 1.53(b))	Express M	ail Label No.	EV26821	0904US			0.8 228
See MPEP (ION ELEMENTS ming utility patent application	on contents.	ADDRES	SS TO:	Commissi P.O. Box	Patent Applioner for Pat 1450 a VA 22313	lents	n	7497
(Submire Application Applicati	the noriginal and a ant claims small 7 CFR 1.27. ication red arrangement striptive title of the ins Reference to Reliament Regarding Frence to sequence computer program I ground of the Inversummary of the Inversignment of the Description (s) act of the Disclosuring(s) (35 U.S.C. elaration why executed (or py from a prior a continuation/dis	[Total Pages		8. Nucle (if app a. L b.	ii. Paper Statemen CCOMPAN Assignment P 37 CFR 3.73(if) (when there is English Trans Information Di Statement (ID Preliminary Ar Return Receipt (Should be sp Certified Copy (if foreign prion Nonpublication (b)(2)(B)(i). Ar or its equivale Other: Supple	ram (Appermino Acid essary) Readable ion Seque ROM or C er ts verifying /ING AF apers (covo) Statemes an assign tation Doctor of Prostcarc or of Priority rity is claim n Request policant mont. ment.to.Ti	redix) Sequence Form (CR nce Listing D-R (2 cop g identity of PPLICAT ver sheet 8 ent nee) ument (if a id (MPEP 5 itemized) v Documer ned) under 35 ust attach idensmittal.	Subressian	or ve copies I PARTS ument(s)) ower of ttorney able) opies of IDS citations C. 122 PTO/SB/35	
		ATION, check appropria or in an Application Data ——			site information	below an	d in the fir	st ser	ntence of the	
Prior application in For CONTINUAT 5b, is considered	ION OF DIVISION	Divisional Examiner Jean AL APPS only; The entire closure of the accompan led upon when a portion	F. Vollano disclosure of the ying continuation	or divisional	Art Unition, from whice	t: 1621 h an oath o	or declaration	on is a		- er Box
		19. (CORRESPON	DENCE AD	DRESS				-	
Custom	ner Number:	2	6753		OR [☐ Corre	spondence	add:	ress below	
Name	Thomas M. Wo	zny								
Address	Andrus, Sceale	s, Starke & Sawall, LLP								
100 East Wisconsin Avenue, Suite 1100				C4-4- 1						
City	Milwaukee			State WI			Zip Co		53202-4178	
Country	USA		16		14-271-7590		Fax	(414-271-5770	
Name (Print/Ty	pe) Thomas M	. Wezny	1/1/1/	Registratio	n No. (Attorne)	//Agent)	28,922			
Signature	UN	moman 1	W VV	my			Date	Nove	ember 26, 20	03

This collection of information is required by 37 CFR 1.53(b). The information is frequired to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 17 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mall Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Complete if Known

PTO/SB/17 (10-03)
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FEE TRANSMITTAL

I LE INANSIMILIA	Application Number					
for FY 2004	Filing Date					
Effective 10/01/2003. Patent fees are subject to annual revision	First Named Inventor Hector F. DeLuca					
Applicant claims small entity status. See 37 CFR 1.27	Examiner Name					
	Art Unit					
TOTAL AMOUNT OF PAYMENT (\$) 385.00	Attorney Docket No. 1256-00929					
METHOD OF PAYMENT (check all that apply)	FEE CALCULATION (continued)					
Check Credit card Money Order None	3. ADDITIONAL FEES					
Deposit Account:	Large Entity Small Entity Fee Fee Fee Fee Fee Fee Fee Fee Fee Fe					
Deposit Account 01.2000		e Paid				
Number	1051 130 2051 65 Surcharge - late filing fee or oath					
Deposit Account Andrus, Sceales, Starke & Sawall, LLP	1052 50 2052 25 Surcharge - late provisional filing fee or cover sheet					
Name The Director is authorized to: (check all that apply)	1053 130 1053 130 Non-English specification					
Charge fee(s) indicated below Credit any overpayments	1812 2,520 1812 2,520 For filing a request for ex parte reexamination	 				
Charge any additional fee(s) or any underpayment of fee(s)	1804 920* 1804 920* Requesting publication of SIR prior to Examiner action					
Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.	1805 1,840* 1805 1,840* Requesting publication of SIR after Examiner action					
FEE CALCULATION	1251 110 2251 55 Extension for reply within first month					
1. BASIC FILING FEE	1252 420 2252 210 Extension for reply within second month					
Large Entity Small Entity	1253 950 2253 475 Extension for reply within third month					
Fee Fee Fee Fee Description Fee Paid Code (\$)	1254 1,480 2254 740 Extension for reply within fourth month					
1001 770 2001 385 Utility filing fee \$385	1255 2,010 2255 1,005 Extension for reply within fifth month	\longrightarrow				
1002 340 2002 170 Design filing fee	1401 330 2401 165 Notice of Appeal					
1003 530 2003 265 Plant filing fee	1402 330 2402 165 Filing a brief in support of an appeal					
1004 770 2004 385 Reissue filing fee	1403 290 2403 145 Request for oral hearing					
1005 160 2005 80 Provisional filing fee	1451 1,510 1451 1,510 Petition to institute a public use proceeding					
SUBTOTAL (1) (\$) 385.00	1452 110 2452 55 Petition to revive - unavoidable					
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE	1453 1,330 2453 665 Petition to revive - unintentional					
Fee from Extra Claims below Fee Paid	1501 1,330 2501 665 Utility Issue fee (or reissue)					
Total Claims 6 -20** = 0 X = 0	1503 640 2503 320 Plant issue fee					
Independent Claims 3 - 3** = 0 X = 0	1460 130 1460 130 Petitions to the Commissioner					
Multiple Dependent = 0	1807 50 1807 50 Processing fee under 37 CFR 1.17(q)					
Large Entity Small Entity	1806 180 1806 180 Submission of Information Disclosure Stmt					
Fee Fee Fee Fee Fee Description Code (\$)	8021 40 8021 40 Recording each patent assignment per property (times number of properties)					
1202 18 2202 9 Claims in excess of 20	1809 770 2809 385 Filing a submission after final rejection					
1201 86 2201 43 Independent claims in excess of 3	(37 ČFR 1.129(a))					
1203 290 2203 145 Multiple dependent claim, if not paid	1810 770 2810 385 For each additional invention to be examined (37 CFR 1.129(b))					
1204 86 2204 43 ** Reissue independent claims over original patent	1801 770 2801 385 Request for Continued Examination (RCE)	- 1				
1205 18 2205 9 ** Reissue claims in excess of 20 and over original patent	1802 900 1802 900 Request for expedited examination of a design application					
0.00	Other fee (specify)					
SUBTOTAL (2) (\$) U.UU **or number previously paid, if greater; For Reissues, see above	*Reduced by Basic Filing Fee Paid SUBTOTAL (3) (\$) 0.00					
SUBMITTED BY	(Complete (if applicable))					
Name (Print/Type) Thomas M2Wozny	Registration No. 28 922 Telephone					
Signatura M. T.	(Attomey/Agent) 20,322 Policy November 26, 20	03				

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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

CERTIFICATE OF EXPRESS MAILING Applicants: Hector F. DeLuca Masato Shimizu) I hereby certify that this correspondence is Sachiko Yamada) being deposited with the United States) Postal Service as Express Mail in an) envelope addressed to: Commissioner of Filed Herein For : Synthesis of A-Ring Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on this 26th day of November, Synthon of 19-Nor-2003. The Express Mail Label is $1\alpha,25$ -Dihydroxyvitamin EV268210904US. D₃ from (D)-Glucose PRIOR APPLICATION DATA: 10/205,453 Appln. No.: November 26, 2003 Applicant: Hector F. DeLuca et al Dorothy A. Hauser Date Filed July 25, 2002 Title : Synthesis of A-Ring Synthon of 19-Nor-1α,25-Dihydroxyvitamin D₃ from (D)-Glucose TC/A.U. 1621 Examiner : Jean F. Vollano Docket No.: 1256-00929

SUPPLEMENT TO TRANSMITTAL LETTER

Mail Stop: Patent Application Commissioner of Patents Washington, DC 20231

Sir:

This application is being filed pursuant to 35 USC §111 and 37 C.F.R. §1.53(b). The application includes the specification, at least one claim, and the filing fee. The Declaration is not included. The inventors are Hector F. DeLuca residing at Deerfield, Wisconsin, U.S. citizen, Masato Shimizu residing at Tokyo, Japan, Japanese citizen, and Sachiko Yamada residing at Tokyo, Japan, Japanese citizen.

The Declaration will be forwarded promptly upon notification from the U.S. Patent and Trademark Office.

Applicants: Hector F. DeLuca et al Attorney Docket No.: 1256-00929

Please address all correspondence and telephone calls regarding this matter to:

Thomas M. Wozny
ANDRUS, SCEALES, STARKE & SAWALL, LLP
100 East Wisconsin Avenue, Suite 1100
Milwaukee, Wisconsin 53202
(414) 271-7590

Respectfully submitted,

ANDRUS, SCEALES, STARKE & SAWALL, LLP

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